
[illegible]

	Date	Exmr.
Inventors' name Search in PALM	6/10/03	RDD
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1. The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) as $\epsilon \rightarrow 0$. It is shown that the solutions of the system (1) converge to the solutions of the system (2) in the sense of the weak convergence in the space $L^2(\Omega; \mathbb{R}^n)$.

2. In the second part of the paper, the asymptotic behavior of the solutions of the system (1) is studied in the case when the domain Ω is a bounded domain in \mathbb{R}^n . It is shown that the solutions of the system (1) converge to the solutions of the system (2) in the sense of the weak convergence in the space $L^2(\Omega; \mathbb{R}^n)$.

3. In the third part of the paper, the asymptotic behavior of the solutions of the system (1) is studied in the case when the domain Ω is an unbounded domain in \mathbb{R}^n . It is shown that the solutions of the system (1) converge to the solutions of the system (2) in the sense of the weak convergence in the space $L^2(\Omega; \mathbb{R}^n)$.

4. In the fourth part of the paper, the asymptotic behavior of the solutions of the system (1) is studied in the case when the domain Ω is a domain in \mathbb{R}^n with a boundary of class C^1 . It is shown that the solutions of the system (1) converge to the solutions of the system (2) in the sense of the weak convergence in the space $L^2(\Omega; \mathbb{R}^n)$.

5. In the fifth part of the paper, the asymptotic behavior of the solutions of the system (1) is studied in the case when the domain Ω is a domain in \mathbb{R}^n with a boundary of class C^1 . It is shown that the solutions of the system (1) converge to the solutions of the system (2) in the sense of the weak convergence in the space $L^2(\Omega; \mathbb{R}^n)$.

6. In the sixth part of the paper, the asymptotic behavior of the solutions of the system (1) is studied in the case when the domain Ω is a domain in \mathbb{R}^n with a boundary of class C^1 . It is shown that the solutions of the system (1) converge to the solutions of the system (2) in the sense of the weak convergence in the space $L^2(\Omega; \mathbb{R}^n)$.

7. In the seventh part of the paper, the asymptotic behavior of the solutions of the system (1) is studied in the case when the domain Ω is a domain in \mathbb{R}^n with a boundary of class C^1 . It is shown that the solutions of the system (1) converge to the solutions of the system (2) in the sense of the weak convergence in the space $L^2(\Omega; \mathbb{R}^n)$.

8. In the eighth part of the paper, the asymptotic behavior of the solutions of the system (1) is studied in the case when the domain Ω is a domain in \mathbb{R}^n with a boundary of class C^1 . It is shown that the solutions of the system (1) converge to the solutions of the system (2) in the sense of the weak convergence in the space $L^2(\Omega; \mathbb{R}^n)$.

9. In the ninth part of the paper, the asymptotic behavior of the solutions of the system (1) is studied in the case when the domain Ω is a domain in \mathbb{R}^n with a boundary of class C^1 . It is shown that the solutions of the system (1) converge to the solutions of the system (2) in the sense of the weak convergence in the space $L^2(\Omega; \mathbb{R}^n)$.

10. In the tenth part of the paper, the asymptotic behavior of the solutions of the system (1) is studied in the case when the domain Ω is a domain in \mathbb{R}^n with a boundary of class C^1 . It is shown that the solutions of the system (1) converge to the solutions of the system (2) in the sense of the weak convergence in the space $L^2(\Omega; \mathbb{R}^n)$.